



CENTER OF OUR STRENGTH

Program Executive Office Soldier



Flame Resistant Clothing

Advance Planning Brief to Industry

12 May 2011



Briefing Topics



- Flame Resistant (FR) Products
 - Army Aviation Combat Uniform (A2CU)
 - Improved Combat Vehicle Crewmen's Coverall (iCVC)
 - Flame Resistant Army Combat Uniform (FR ACU)
 - Army Combat Shirt (ACS)
 - Ghillie Suit Accessory Kit Upgrade (GSAK)
 - Lightweight Performance Hood (LPH)
 - Army Combat Pants (ACP)
 - Fuel Handlers' Coverall (FHC)
 - Integrated Flame Resistant Patch Kit
 - Alternate Flame Resistant Fabric Qualification

- Summary



Flame Resistant Clothing



**Flame Resistant
Army Combat
Uniform (FR ACU)**



**Army
Aviation
Combat
Uniform
(A2CU)**



**Improved
Combat Vehicle
Crewman's
Coverall (iCVC)**



**Army
Combat Shirt
(ACS)**



**Lightweight
Performance
Hood (LPH)**



Ghillie Suit Base-Layer



**Ghillie Suite Accessory
Kit (GSAK)**



**Army Combat
Pants**





Army Aircrew Combat Uniform (A2CU)



SYSTEM DESCRIPTION:

- The A2CU is the current Aviation Combat Uniform, designed to improve operational effectiveness, fit, suitability, and durability, addressing near-term Air Warrior requirements
- Meets Air Warrior requirements

OBJECTIVE: Provide a two-piece flame resistant flight suit for Army Aviators and Aircrew Members

BOI: 4 per Aviator and Aircrew Member:

NSNs: Coat: 8415-01-526-9177 (s)
Trousers: 8415-01-526-9728 (s)

ACTIONS:

- Deploying units. Fielding 4 per deploying Aviator and Aircrew Members through the FR Clothing Fielding Team in both UCP and OCP
- Sustainment through Army Direct Ordering (ADO) IAW instructions posted on the Air Warrior Extranet, Forum section



Improved Combat Vehicle Crewman's Coverall (iCVC)



OBJECTIVE: Provide a one-piece flame resistant coverall to Combat Vehicle Crews

BOI: 4 per 19D and 19K serving as CVC

NSNs: 8415-01-560-4719 (xs-short)

SYSTEM DESCRIPTION:

- The Improved Combat Vehicle Crewman's Coverall (iCVC) is designed to improve operational effectiveness, fit, suitability, and durability, addressing near-term Mounted Warrior requirements. All materials offer superior flame resistance, comfort and durability
- Meets Mounted Warrior requirements, pattern (UCP)/(OCP) scheduled for May 2011

ACTIONS:

- Deploying units. Fielding 4 per deployer through the FR Clothing Fielding Team
- Alternative fabrics and anti-abrasion technologies are under consideration
- Sustainment availability through Army Direct Ordering (ADO)



Flame Resistant Army Combat Uniform (FR ACU)



SYSTEM DESCRIPTION:

- The FR ACU is similar in design to the ACU but made from flame resistant material. One inch green tab for (UCP) and brown tab for (OCP) on the left sleeve cuff and left pants cargo pocket flap help differentiate the FR ACU from the ACU
- Advanced fabrics provide enhanced FR protection without sacrificing other performance factors critical to the ground Soldier such as durability, breathability, and moisture management

ACTIONS:

- Deploying units. Fielding 4 per deployer through the FR Clothing Fielding Team
- Sustainment quantities can be requisitioned through Army Direct Ordering (ADO)
- Durability enhancements integrated in FY10 procurements
- Alternate FR fabric Soldier evaluation 3FY11

OBJECTIVE: Provide flame protection without increasing Soldier heat-stress or sacrificing other performance attributes of the current ACU

BOI: 4 per deploying Soldier

NSN Coat: 8415-01-548-3172 M-R
Trousers: 8415-01-548-4695 M-R



Modular Ghillie Suit and Ghillie Suit Accessory Kit (GSAK)



SYSTEM DESCRIPTION:

- 17-item kit and stand-alone flame resistant uniform that together provide improved counter-surveillance protection, protection from flame and thermal threats, increased mobility and agility, increased multi-system operability, and anti-odor/antimicrobial properties

OBJECTIVE: Provide the Army Sniper with a more useable flame resistant Ghillie Suit ensemble, consisting of a uniform base layer and Boonie Hat that is used with the accessory kit to more readily meet the needs of the individual sniper

BOI: Base Layer and GSAK- one per deploying Soldier in authorized Sniper position.

NSNs: TBD

ACTIONS:

- 2010 RFI Item
- Available through GSA
- Transition to sustainment 4FY11



Army Combat Shirt (ACS)



SYSTEM DESCRIPTION:

- The ACS enhances and maximizes Soldier capabilities of extended mission duration by reducing heat stress and burn injury, coupled with bulk and weight reduction when wearing body armor. The shirt's features include superior moisture wicking ability, anti-microbial treatment, flame resistance (FR), and anti-abrasion elbow pads

OBJECTIVE: Provide deployed Soldiers an FR Combat Shirt that reduces heat stress and increases comfort in a hot weather environment while providing protection from flame and thermal threats, when wearing body armor

ACTIONS:

- Fielding BOI of 4 per deploying Soldier in both UCP and OCP
- ACS on ADO FY 10
- Improved Army Combat Shirt under consideration

BOI: 4 per deploying Soldier

NSNs: 8415-01-548-7206 M-R



Lightweight Performance Hood



SYSTEM DESCRIPTION:

- The Lightweight Performance Hood (LPH) replaces the legacy Anti-Flash Hood. The LPH enhances and maximizes Soldier capabilities of extended mission duration, reducing heat stress and burn injury to the neck, ears, and face. The hood's features include superior moisture wicking ability, increased comfort, anti-microbial capabilities, and flame resistance (FR)
- When coupled with FR Combat Uniforms, burn injury is greatly reduced

OBJECTIVE: Provide deploying Soldiers an FR Hood that protects the Soldier's face, ears, and neck during a flash flame or thermal incident

BOI: 2 per deploying Soldier

MCN: 8415-01-F00-3869

ACTIONS:

- Fielding to deploying Soldiers through the FR Clothing Fielding Team
- On the Federal Procurement List (FPL) 1 May 2009
- Alternate LPH to better meet Aviation and Mounted Crew requirements in progress



Combat Pants



SYSTEM DESCRIPTION:

- The FR Combat Pant is designed to provide Soldiers protection from harsh terrain while deployed in theater. Features include reinforced crotch, FR material, anti-abrasion seat, adjustable knee pads and stretch material

OBJECTIVE: Provide Soldiers an Army Combat Pant that dramatically reduces seat, knee, and stress area failures, increases durability and range of motion, and provides Soldiers flash flame and thermal protection

BOI: TBD

NSNs: TBD

ACTIONS:

- User evaluation completed FY10
- Under consideration for the FY12 RFI list



FR Fuel Handlers' Coverall



SYSTEM DESCRIPTION:

- Liquid-penetration-resistant for JP8 and water, static dissipative materials inherent
- Coveralls can be worn over the ACU/FR ACU or by themselves, and offer a high degree of protection from POLs
- FR solution in 4FY11

ACTIONS:

- In Solicitation for FR variant in UCP Pattern and color

OBJECTIVE: Provide Flame Resistance, Environmental and Electrostatic protection for Soldiers handling fuel and petroleum products

BOI: 2 pair per applicable MOSs

NSNs: TBD



FR Integrated Patch Kit



SYSTEM DESCRIPTION:

- FR patch in sealed launderable rubber sleeve with pressure-sensitive adhesive that rapidly adheres to uniforms and equipment
- Can be utilized to repair all current uniforms and equipment

ACTIONS:

- Individual patch is included in each issued FR uniform

OBJECTIVE: Provide Soldiers with a field-expedient means for uniform and equipment repair without sewing

BOI: One 8-pack per team through RFI, inclusion in uniform FY-11

NSNs: 8415-01-579-3107



Alternate FR Fabric Qualification



OBJECTIVE: Evaluate and qualify alternate FR materials that can be used in the production of flame resistant uniforms, to provide improved protection, durability and comfort.

BOI: N/A

SYSTEM DESCRIPTION:

- Alternate qualified FR woven materials for use in uniform production

ACTIONS:

- Evaluating and qualifying alternate FR fabrics in rip-stop and twill for inclusion in the FR ACU purchase description, to increase the industrial base and fabric supply chains



Path Forward



FR Products	Projected Contract Actions
FR-ACU, iCVC, A2CU	OCP and UCP Army and Sustainment contracts in place
Ghillie, Ghillie Base Layer	On GSA, FY 10 RFI Item
Army Combat Shirt (ACS)	OCP Sustainment contract 4FY11
Lightweight Performance Hood (LPH)	On the FPL FY10
Army Combat Pants	Proposed FY12 RFI item
Fuel Handlers Coverall	FR Version 4 FY 11 (sustainment contract)
Integrated Patch Kit	8 Pack Kit- RFI, IPK- Individual Uniforms FY 11
Alternate FR Fabric Qualification	Alternate Fabrics Selection 3FY11



Summary



- Joint Coordination and sharing of uniform/equipment information with sister Services and SOF to leverage lessons learned
- Continued Data Exchange with Brooks Army Medical Center Burn Center/ Institute of Surgical Research
- Utilizing Small Business Innovative Research Programs, Requests for Information and Sources Sought to Industry to leverage technology breakthroughs to improve Soldier Protection



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QUESTIONS?